



SP03-081

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Stephen J. Caracci, et al

Examiner: TBA

Serial No: 10/632276

Group Art Unit: 2874

Filed: 8/1/2003

For: SUBSTRATE INDEX MODIFICATION
FOR INCREASING THE SENSITIVITY
OF GRATING-COUPLED WAVEGUIDES

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.56, 1.97 – 1.98

Commissioner of Patents
Alexandria, VA 22313-1450

Dear Sir:

The Examiner's attention is hereby directed to the following reference(s) listed on the attached Form PTO-1449 for consideration in connection with the examination of the above-identified patent application. One copy of the reference(s) is enclosed.

This submission does not represent that a search has been made or that no better art exists and does not constitute an admission that each or all of the enclosed documents constitute "prior art." If it should be determined that any of the submitted documents do not constitute "prior art" under United States law, applicant(s) reserve the right to present to the office the relevant facts and law regarding the appropriate status of such documents.

Applicant(s) further reserve the right to take appropriate action to establish the patentability of the disclosed invention over the enclosed references, should one or more of the references be applied against the claims of the present application.

Respectfully submitted,

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Date: April 29, 2004

I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to Commissioner of Patents, Alexandria, Va 22313-1450 on April 29, 2004
Date of Deposit

Thomas R. Beall
Name of applicant, assignee, or
(Registered Representative)

April 29, 2004
Date of Signature



MAY 03 2004

FORM PTO-1449 (MODIFIED)

LIST OF PATENTS AND
PUBLICATIONS
FOR APPLICANTS INFORMATION
DISCLOSURE STATEMENT

ATTORNEY DOCKET NO.

SP03-081

SERIAL NO.

10/632276

APPLICANT

Stephen J. Caracci, et al.

FILING DATE

8/1/2003

GROUP:

2874

REFERENCE DESIGNATION

U.S. PATENT DOCUMENTS

Examiner Initial		Document Number	Date	Name	Class	Sub-Class	Filing Date if Approp.
	AA	4,815,843	03-28-89	Kurt Tiefenthaler et al.	356	128	
	AB	5,738,825	04-14-98	Helmut Rudigier et al.	422	82.11	
	AC	2002/0109100	08-15-02	J.H. Jackson III et al.	250	458.1	
	AD	2002/0127565	09-12-02	Brian Cunningham et al.	435	6	
	AE	2002/0168295	11-14-02	Brian Cunningham et al.	422	82.05	
	AF						
	AG						
	AH						
	AI						
	AJ						
	AK						

FOREIGN PATENT DOCUMENTS

		Document Number	Date	Country	Class	Sub-Class	Translation Yes	No
	AL							
	AM							
	AN							
	AO							
	AP							
	AQ							

OTHER ART (Including Author, Title, Date, Pertinent Pages, etc.)

AR	N.H. Fontaine et al., "Variable-angle internal-reflection Raman spectroscopy for depth-resolved vibrational characterization of polymer thin films", Physical Review B, Vol. 57, No. 7, February 15, 1998, pg. 3807-3810
AS	A. Grandenburg et al., "Grating Couplers as chemical sensors: a new optical configuration", Sensors and Actuators B, 17 (1993), pg. 35-40
AT	K. Tiefenthaler et al., "Sensitivity of grating couplers as integrated-optical chemical sensors", J. Opt. Soc. Am. B, Vol. 6, No. 2, February 1989, pg. 209-220
AU	W. Lukosz, "Integrated optical chemical and direct biochemical sensors", Sensors and Actuators B, 29 (1995), pgs. 37-50
AV	K. Tiefenthaler et al., "Integrated optical switches and gas sensors", Optics Letters, April 1984, VOL. 10, No. 4, pgs. 137-139
AW	

EXAMINER:

DATE CONSIDERED:

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609: draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.